

Title (en)
SOLID-STATE IMAGING DEVICE

Title (de)
FESTKÖRPERBILDGEBUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'IMAGERIE À SEMI-CONDUCTEURS

Publication
EP 3833015 A4 20210908 (EN)

Application
EP 19844669 A 20190709

Priority

- JP 2018144065 A 20180731
- JP 2019027161 W 20190709

Abstract (en)
[origin: EP3833015A1] A solid-state imaging device according to an embodiment of the present disclosure includes a stacked photoelectric converter for each of pixels. The stacked photoelectric converter has a plurality of photoelectric conversion elements stacked therein. The plurality of photoelectric conversion elements each has different wavelength selectivity. This solid-state imaging device further includes a plurality of data output lines from which pixel signals based on electric charges outputted from the photoelectric conversion elements are outputted. A plurality of data output lines is provided for each predetermined unit pixel column. The plurality of the data output lines is equal in number to an integer multiple of the photoelectric conversion elements stacked in the stacked photoelectric converter.

IPC 8 full level
H04N 9/07 (2006.01); **H01L 27/146** (2006.01); **H01L 27/30** (2006.01); **H04N 5/369** (2011.01); **H04N 5/3745** (2011.01)

CPC (source: CN EP KR US)
B60R 1/001 (2013.01 - US); **G02B 23/2407** (2013.01 - US); **H01L 27/146** (2013.01 - KR); **H01L 27/14605** (2013.01 - US); **H01L 27/14612** (2013.01 - EP); **H01L 27/14621** (2013.01 - US); **H01L 27/14638** (2013.01 - EP); **H01L 27/14641** (2013.01 - EP); **H01L 27/14647** (2013.01 - EP); **H01L 27/14667** (2013.01 - EP); **H04N 25/17** (2023.01 - EP); **H04N 25/76** (2023.01 - CN EP); **H04N 25/766** (2023.01 - US); **H04N 25/77** (2023.01 - KR); **H04N 25/78** (2023.01 - EP); **H04N 25/79** (2023.01 - KR); **H10K 39/32** (2023.02 - CN EP KR); **H10K 39/38** (2023.02 - CN); **H01L 27/14621** (2013.01 - EP); **H01L 27/14627** (2013.01 - EP); **H01L 27/1464** (2013.01 - EP); **H04N 23/12** (2023.01 - EP); **H04N 23/555** (2023.01 - US)

Citation (search report)

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EP4203461A1; US11699720B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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EP 3833015 A1 20210609; EP 3833015 A4 20210908; CN 112470466 A 20210309; CN 112470466 B 20230620; CN 116504798 A 20230728; CN 116504799 A 20230728; CN 116648079 A 20230825; JP 2023096075 A 20230706; JP 7284171 B2 20230530; JP WO2020026720 A1 20210802; KR 20210040937 A 20210414; TW 202008571 A 20200216; TW I833774 B 20240301; US 11990486 B2 20240521; US 2021296382 A1 20210923; US 2024038788 A1 20240201; WO 2020026720 A1 20200206

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